REMARKS

This paper is filed in response to the Office Action mailed June 22, 2007, in

which claims 1-46 are pending in the present application. Claims 1-3 and 15-46 are

withdrawn from consideration and claims 4-9 and 11-14 are rejected. Claim 10 is

objected to. Claims 4-10 and 12 have been amended herein. Claims 47-53 have been

added.

Claim Amendments

Support for the amendments to claims 4-10 may be found in claim 10 as

originally filed and the specification in paragraph [0048]. Support for amendments to

claims 4, the reciting solutions of silver nitrate and poly(vinyl pyrrolidone) in a solvent,

may be found in paragraphs [0040], [0056], [0079], [0082], and [0102] describing the

role of ethylene glycol as a solvent and naming alternative solvents such as 2,4-

pentanedione, methanol, ethanol, water and their mixtures. Support for claims 47-53

may be found in claims 4 and 9 as originally filed, and paragraphs [0049], [0080], and

[0095] of the specification as filed.

Rejection—35 U.S.C. 112, Second Paragraph

Claim 7 is rejected under 35 U.S.C. § 112, second paragraph, as allegedly being

indefinite for failing to particularly point out and distinctly claim the subject matter which

applicant regards as the invention. Applicant submits that the amended claim 7

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overcomes any alleged indefiniteness. More particularly, amended claim 7 distinctly

recites that the solution of silver nitrate in ethylene glycol and the solution of poly(vinyl

pyrrolidone) in ethylene glycol are combined simultaneously with a separate volume of

ethylene glycol.

Rejection—35 U.S.C. 102(b)

Claims 4-7 are rejected under 35 U.S.C. § 102(b) as allegedly being anticipated

by Carotenuto et al., Eur. Phys. J. B 16, 11-17 (2000). Applicants respectfully traverse

this rejection because Carotenuto et al. does not each and every element of claims 4-7.

Carotenuto et al. disclose two methods for making polymer-colloidal silver

nanocomposite samples. The first method consists of dissolving poly(N-vinyl

pyrrolidone) (PVP) in ethylene glycol at room temperature and then adding silver nitrate

and allowing the reaction to proceed at room temperature to form the colloidal silver

nanocomposite. The second method consists of mixing a solution of silver nitrate in

ethylene glycol and a solution of poly(vinyl pyrrolidone) in ethylene glycol while at room

temperature and under constant sonication for the length of the reaction.

Amended independent claim 4 recites a method of manufacturing silver

nanopyramids. As stated by the Examiner in item 9, on page 4 of the Office Action, the

prior art, including Carotenuto et al., do not disclose or suggest the formation of

nanopyramids. Similarly, applicants wish to note that Carotenuto et al. do not disclose

the manufacture of nanowires, as recited by added claims 47-53.

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Furthermore, Carotenuto et al. does not disclose a method of selecting reaction

conditions, such as specific ranges of elevated reaction temperatures, to select for a

silver nanostructure having a desired shape and size as claimed by the Present

Application. As such, amended independent claim 4, and those claims dependent

therefrom, are patentable over Carotenuto et al.

Accordingly, applicants request that the rejection of claims 4-7 be removed.

Claims 4-7, 9 and 11 are rejected under 35 U.S.C. § 102(b) as allegedly being

anticipated by Sun et al., Nano Letters, vol. 2 no. 2, pp. 165-168, January 3, 2002, Sun

et al., Advanced Materials, 14, no. 11, pp. 833-837, June 5, 2002, and Sun et al., Chem.

Mater., no. 14, pp. 4736-4745, October 8, 2002.

Under 35 U.S.C. § 102(b), a publication is proper prior art if the publication is

available and describes the invention more than one year prior to the date of

application. The present invention claims priority of U.S. Provisional Application No.

60/432,098, filed on December 9, 2002. Therefore, a proper 102(b) publication, even if

authored by the patent applicant, must have been published more than one year before

December 9, 2002 (i.e., before Dec. 9, 2001). None of the Sun et al. references relied

on in the Office Action were published before December 9, 2001. As such, claims 4-7,

9 and 11 are patentable over the referenced Sun et al. publications.

Accordingly, applicants request that the rejection of claims 4-7, 9 and 11 be

removed.

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Rejection—35 U.S.C. § 103(a)

Claims 8 and 12-14 are rejected under 35 U.S.C. § 103(a) as allegedly being

unpatentable over Sun et al., Advanced Materials, 14, no. 11, pp. 833-837, June 5,

2002, and Sun et al., Chem. Mater., no. 14, pp. 4736-4745, October 8, 2002.

As stated previously, the present invention claims priority of U.S. Provisional

Application No. 60/432,098, filed on December 9, 2002. Publications authored by the

patent applicant and published during the 102(b) one-year grace period, i.e., December

9, 2001 through December 9, 2002, under 102(b) are not proper prior art that would

render the Present Application obvious. Specialty Composites v. Cabot Corp., 845

F.2d. 981, 990, 6 USPQ2d 1601 (Fed. Cir. 1988). Sun et al. (June 5, 2002), and Sun et

al. (October 8, 2002) were both published during the one-year grace period before

December 9, 2002. As such, the Sun et al. references are not proper prior art

references under 103(a) and, for at least this reason, claims 8 and 12-14 are patentable

over the Sun et al. references.

Therefore, applicants request that the rejection of claims 8 and 12-14 be

removed.

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CONCLUSION

In view of the foregoing, it is believed that all of the claims are patentable in their present form, and a prompt notice of allowance for this case is respectfully requested. As mentioned above, if the Examiner finds any remaining impediment to the prompt allowance of this application, please contact the undersigned attorney.

DATED this 21ST day of November, 2007.

Respectfully submitted,

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